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This is the fourth cruise of the MC252 Deep water sediment sampling program, R/V Gyre. Three stations were sampled (LBNL-1, ALT-NF-001, and NF-006-MOD), one cast per station. Little black granules that may be weathered oil were observed. A slight sheen was present in overlaying water at site LBNL-1. Little brown globules were observed in Core 3 at LBNL-1. ROBIO was dropped at the start before any sampling sites.

Station 1

1. Station ID: LBNL-1

2. Average Lat: 28.704972 Average Lon: -88.492633

3. Depth: 1561m

4. Time Corer Deployed: 10:15
Time Corer Recovered: 10:46
Time Corer on Deck: 11:20

5. Sample nomenclature:

Sample Type(sediment or overlaying water) – Date – Ship – Site ID – Analysis Type – Unique Identifier

- 6. LBNL Sampling Team: Kevin McClay and Julian Fortney
- 7. Location Notes: 1 cast attempted. Overlaying water was clear and easy to filter. Soft sediment interface, likely drilling mud. A slight sheen was observed on top of water after pumping.

8. LBNL samples:

Core number 1: GT0030

Sample ID	Sample Type	Volume	Storage
SE-20101001-GY-LBNL1- BC-120	Intact Core	NA	-80C
SU-20101001-GY-LBNL1- BC-126	AODC	20ml	4C
SU-20101001-GY-LBNL1- BC-127	DNA Filter	700ml	-80C
SU-20101001-GY-LBNL1- BC-128	DNA Filter	710ml	-80C

Core number 2: GT0038

Sample ID	Sample Type	Volume	Storage
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SE-20101001-GY-LBNL1- BC-121	Intact Core	NA	-80C
SU-20101001-GY-LBNL1- BC-129	AODC	20ml	4C
SU-20101001-GY-LBNL1- BC-130	Culture	10ml	4C
SU-20101001-GY-LBNL1- BC-131	RNA Filter	700ml	-80C with 10ml RNA later
SU-20101001-GY-LBNL1- BC-132	RNA Filter	800ml	-80C with 10ml RNA later
SU-20101001-GY-LBNL1- BC-133	Single cell genomics	1.5ml	-80C with 0.5ml 60% glycerol
SU-20101001-GY-LBNL1- BC-134	Single cell genomics	1.5ml	-80C with 0.5ml 60% glycerol
SU-20101001-GY-LBNL1- BC-135	Single cell genomics	1.5ml	-80C with 0.5ml 60% glycerol

Core number 3: GT0003

Sample ID	Sample Type	Volume	Storage
SE-20101001-GY-LBNL1- BC-122	Single cell genomics	1ml (sediment)	-80C with 0.5ml 60% glycerol
SE-20101001-GY-LBNL1- BC-123	AODC	1ml (sediment)	4C with 0.1ml of formaldehyde
SE-20101001-GY-LBNL1- BC-124	Culture	1ml (sediment)	4C
SE-20101001-GY-LBNL1- BC-125	RNA	1.5ml (sediment)	-80C with 10ml RNA later
SU-20101001-GY-LBNL1- BC-136	SIP	125ml	4C
SU-20101001-GY-LBNL1- BC-137	Nutrients	100ml	-80C
SU-20101001-GY-LBNL1- BC-138	VOA	40ml	4C with 0.05ml HCL

Station 2

Station ID: ALT-NF-001
 Average Lat: 28.704972
 Average Lon: -88.370508

3. Depth: 1543m

4. Time Corer Deployed: 13:53
Time Corer Recovered: 14:25
Time Corer on Deck: 15:01

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5. Sample nomenclature:

Sample Type(sediment or overlaying water) – Date – Ship – Site ID – Analysis Type – Unique Identifier

- 6. LBNL Sampling Team: Kevin McClay and Julian Fortney
- 7. Location Notes: 1 cast attempted. Overlaying water was clear and easy to filter.
- 8. LBNL samples:

Core number GT0048:

Sample ID	Sample Type	Volume	Storage
SE-20101001-GY- ALTNF001-BC-139	Intact Core	NA	-80C
SU-20101001-GY- ALTNF001-BC-140	AODC	20ml	4C
SU-20101001-GY- ALTNF001-BC-141	DNA Filter	800ml	-80C
SU-20101001-GY- ALTNF001-BC-142	DNA Filter	740ml	-80C

Station 3

Station ID: NF-006-MOD
 Average Lat: 28.745108
 Average Lon: -88.359144

3. Depth: 1517m

4. Time Corer Deployed: 17:12 Time Corer Recovered: 17:44 Time Corer on Deck: 18:22

5. Sample nomenclature:

Sample Type(sediment or overlaying water) – Date – Ship – Site ID – Analysis Type – Unique Identifier

- 6. LBNL Sampling Team: Kevin McClay and Julian Fortney
- 7. Location Notes: 1 cast attempted. Overlaying water was clear and easy to filter. Soft sediment interface, likely drilling mud.
 - 8. LBNL samples:

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Core number: GT0052

Sample ID	Sample Type	Volume	Storage
SE-20101001-GY- NF006MOD-BC-143	Intact Core	NA	-80C
SU-20101001-GY- NF006MOD-BC-144	AODC	20ml	4C
SU-20101001-GY- NF006MOD-BC-145	DNA Filter	800ml	-80C
SU-20101001-GY- NF006MOD-BC-146	DNA Filter	730ml	-80C